

Application No. 09/725,955

312 Amendment dated January 13, 2004

Reply to Notice of Allowance dated November 4, 2003

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) An inbred corn seed designated MNI1, wherein a sample of said seed has been deposited under ATCC Accession number _____ PTA-5645.
2. (PREVIOUSLY PRESENTED) A corn plant or part thereof, produced by growing the seed of claim 1.
3. (ORIGINAL) Pollen of the plant of claim 2.
4. (PREVIOUSLY PRESENTED) An ovule of the plant of claim 2.
5. (ORIGINAL) A corn plant, or part thereof, having all the physiological and morphological characteristics of the corn plant of claim 2.
6. (PREVIOUSLY PRESENTED) The corn plant of claim 2, wherein said plant is detasseled.
7. (PREVIOUSLY PRESENTED) A tissue culture of regenerable cells or protoplasts prepared from the corn plant of claim 2.
8. (PREVIOUSLY PRESENTED) The tissue culture of claim 7, wherein the cells or protoplasts are from a tissue selected from the group consisting of meristematic cells, leaves, pollen, embryo, roots, root tip, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.
9. (CURRENTLY AMENDED) A corn plant regenerated from the tissue culture of claim 7, wherein the plant has all the morphological and physiological characteristics of inbred corn plant MNI1, wherein a sample of seed of said inbred corn plant has been deposited under ATCC Accession number _____ PTA-5645.
10. (PREVIOUSLY PRESENTED) A corn plant with all the morphological and physiological characteristics of inbred corn plant MNI1, wherein said corn plant is produced from a tissue culture prepared from the corn plant of claim 5.

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11. (PREVIOUSLY PRESENTED) A method for producing a hybrid corn seed comprising crossing a first inbred parent corn plant with a second inbred parent corn plant and harvesting the resultant hybrid corn seed, wherein said first or second inbred parent corn plant is the corn plant of claim 2.

12 - 37. (CANCELED)

38. (PREVIOUSLY PRESENTED) A method for producing a transgenic corn plant comprising transforming the corn plant of claim 2 with a transgene wherein the transgene confers a characteristic selected from the group consisting of: herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease, and male sterility.

39. (PREVIOUSLY PRESENTED) A transgenic corn plant produced by the method of claim 38.

40. (PREVIOUSLY PRESENTED) A method of producing a male sterile corn plant comprising transforming the corn plant of claim 2 with a transgene that confers male sterility.

41. (PREVIOUSLY PRESENTED) A male sterile corn plant produced by the method of claim 40.

42. (PREVIOUSLY PRESENTED) A method of producing an herbicide resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers herbicide resistance.

43. (PREVIOUSLY PRESENTED) A herbicide resistant corn plant produced by the method of claim 42.

44. (PREVIOUSLY PRESENTED) A method of producing an insect resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers insect resistance.

45. (PREVIOUSLY PRESENTED) An insect resistant corn plant produced by the method of claim 44.

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46. (PREVIOUSLY PRESENTED) A method of producing a disease resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers disease resistance.

47. (PREVIOUSLY PRESENTED) A disease resistant corn plant produced by the method of claim 46.

48. (CANCELED)

49. (CURRENTLY AMENDED) A method of introducing a desired trait into corn inbred line MNI1 comprising:

(a) crossing MNI1 plants grown from seed deposited under ATCC Accession No. PTA-_____ 5645, with plants of another corn line that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from male sterility, herbicide resistance, insect resistance, and resistance to bacterial, fungal or viral disease;

(b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;

(c) crossing the selected progeny plants with the MNI1 plants to produce backcross progeny plants;

(d) selecting for backcross progeny plants that have the desired trait and physiological and morphological characteristics of corn inbred line MNI1 to produce selected backcross progeny plants; and

(e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of corn inbred line MNI1 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.

50. (PREVIOUSLY PRESENTED) A plant produced by the method of claim 49, wherein the plant has the desired trait and all of the physiological and morphological characteristics of corn inbred line MNI1 listed in Table 1 as determined at the 5% significance level when grown in the same environmental conditions.